

AMENDMENTS TO THE CLAIMS

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This listing of claims will replace all prior versions, and listings of claims, in the application.

Listing of Claims:

Claim 1 (currently amended): A test strip for chemical analysis of a sample, adapted for use in combination with a measuring device having a test port and capable of performing a multiplicity of testing functionalities, said test strip comprising:

- (a) a support capable of releasably engaging said test port;
- (b) at least one reaction area on said support for receiving said sample; and
- (c) an indicator capable of interacting with said test port to select only one of said multiplicity of testing functionalities of said measuring device, wherein said indicator comprises at least one electrically conductive indicator contact capable of engaging at least two electrically conductive pins within said test port to thereby select only one of said multiplicity of testing functionalities of said measuring device.

Claim 2 (canceled)

Claim 3 (canceled)

Claim 4 (currently amended): A test strip for chemical analysis of a sample, adapted for use in combination with a measuring device having a test port and capable of performing a multiplicity of testing functionalities, said test strip comprising:

- (a) a support capable of releasably engaging said test port;

- (b) at least one reaction area on said support for receiving said sample; and
- (c) an indicator capable of interacting with said test port to select only one of said multiplicity of testing functionalities of said measuring device, wherein said indicator comprises at least one projection on said support, said at least one projection capable of mechanically engaging at least one pin within said test port to thereby select only one of said multiplicity of testing functionalities of said measuring device.

Claim 5 (previously presented): The test strip of claim 4, wherein said at least one projection displaces said at least one pin.

Claim 6 (currently amended): A test strip for chemical analysis of a sample, adapted for use in combination with a measuring device having a test port and capable of performing a multiplicity of testing functionalities, said test strip comprising:

- (a) a support capable of releasably engaging said test port;
- (b) at least one reaction area on said support for receiving said sample; and
- (c) an indicator capable of interacting with said test port to select only one of said multiplicity of testing functionalities of said measuring device, wherein said indicator comprises at least one depression on said support, said at least one depression capable of mechanically engaging at least one pin within said test port to thereby select only one of said multiplicity of testing functionalities of said measuring device.

Claim 7 (previously presented): The strip of claim 6, wherein at least one of said pins can be displaced into at least one of said depressions.

Claim 8 (previously presented): The test strip of claim 6, wherein said at least one depression defines at least one hole.

Claim 9 (currently amended): A test strip for chemical analysis of a sample, adapted for use in combination with a measuring device having a test port and capable of performing a multiplicity of testing functionalities, said test strip comprising:

- (a) a support capable of releasably engaging said test port;
- (b) at least one reaction area on said support for receiving said sample; and
- (c) an indicator capable of interacting with said test port to select only one of said multiplicity of testing functionalities of said measuring device, wherein said indicator comprises an optically detectable pattern capable of signaling or being detected by an optical detector in said test port to thereby select only one of said multiplicity of testing functionalities of said measuring device.

Claim 10 (previously presented): The test strip of claim 1, wherein said indicator contacts comprise a material selected from the group consisting of carbon, gold, silver, platinum, nickel, palladium, titanium, copper, and lead.

Claim 11 (original): The test strip of claim 10, wherein said material is a printable ink.

Claim 12 (original): The test strip of claim 1, wherein said sample is a bodily fluid.

Claim 13 (original): The test strip of claim 1, wherein said chemical analysis comprises measuring in said sample the concentration of a compound selected from the group consisting of L-amino acids, alcohols, aldehydes, ketones, urea, creatinine, xanthines, sarcosine, glucolate, pyruvate, lactate, fructosamine, methylamine, carbon monoxide, cholesterol, hemoglobin, glycated hemoglobin, microalbumin, high density lipoproteins, and low density lipoproteins.

Claim 14 (original): The test strip of claim 1, wherein said compound is glucose.

Claim 15 (previously presented): The test strip of claim 1, wherein said reaction area comprises at least one reagent adsorbed to said support, said at least one reagent capable of reacting with a compound in said sample.

Claim 16 (previously presented): The test strip of claim 15, wherein said at least one reagent is selected from the group consisting of glucose oxidase, lactate dehydrogenase, peroxidase, and galactose oxidase.

Claim 17 (original): The test strip of claim 1, further comprising a multiplicity of electrically conductive testing contacts capable of transferring current between said reaction area and said measuring device.

Claim 18 (original): The test strip of claim 17, wherein said testing contacts comprise a material selected from the group consisting of carbon, gold, silver, platinum, nickel, palladium, titanium, copper and lead.

Claim 19 (original): The test strip of claim 18, wherein said material is a printable ink.

Claim 20 (previously presented): The test strip of claim 17, wherein said testing contacts are located on a first major surface of said test strip and said indicator is located on a second major surface of said test strip.

Claim 21 (previously presented): The test strip of claim 17, wherein said testing contacts and said indicator are located on the same surface of said test strip.

Claim 22 (currently amended): A test port for use in a measuring device capable of performing a multiplicity of testing functionalities and adapted for use with the test strip of claim 1, said test port comprising at least two electrically conductive pins, said at least two electrically conductive pins

capable of specifically interacting with said at least one electrically conductive indicator contact on said test strip to thereby select only one of said multiplicity of testing functionalities of said measuring device.

Claim 23 (canceled)

Claim 24 (previously presented): The test port of claim 22, wherein at least two of said electrically conductive pins can be bridged by said at least one electrically conductive indicator contact, thereby closing an electrical circuit.

Claim 25 (canceled)

Claim 26 (previously presented): A test port for use in a measuring device capable of performing a multiplicity of testing functionalities and adapted for use with the test strip of claim 4, wherein said test port comprises at least one pin that can be mechanically engaged by said indicator on said test strip, thereby either closing an electrical circuit or opening an electrical circuit.

Claim 27 (previously presented): A test port for use in a measuring device capable of performing a multiplicity of testing functionalities and adapted for use with the test strip of claim 9, wherein said test port comprises at least one optical sensor capable of measuring light absorbance, reflectivity, color, or a character.

Claim 28 (currently amended): A measuring device having a multiplicity of testing functionalities for chemical analysis, adapted for use with the test strip of claim 1, said device comprising:

(a) a test port comprising at least two electrically conductive pins, said at least two electrically conductive pins capable of specifically interacting with said at least one electrically conductive indicator contact on said test strip

to thereby select only one of said multiplicity of testing functionalities of said measuring device; and

(b) a multiplicity of test circuitries for specifically measuring reactions on said test strip, said multiplicity of said test circuitries corresponding to said multiplicity of testing functionalities.

Claim 29 (previously presented): A test port for use in a measuring device capable of performing a multiplicity of testing functionalities and adapted for use with the test strip of claim 6, wherein said test port comprises a pattern of at least one indentation or hole, wherein said at least one indentation or hole fails to displace at least one pin of said test strip upon insertion of said test strip into said test port to thereby select only one of said multiplicity of testing functionalities of said measuring device.

Claim 30 (previously presented): The test strip of claim 4, wherein said sample is a bodily fluid.

Claim 31 (previously presented): The test strip of claim 4, wherein said chemical analysis comprises measuring in said sample the concentration of a compound selected from the group consisting of L-amino acids, alcohols, aldehydes, ketones, urea, creatinine, xanthines, sarcosine, glucolactone, pyruvate, lactate, fructosamine, methylamine, carbon monoxide, cholesterol, hemoglobin, glycated hemoglobin, microalbumin, high density lipoproteins, and low density lipoproteins.

Claim 32 (previously presented): The test strip of claim 4, wherein said compound is glucose.

Claim 33 (previously presented): The test strip of claim 4, wherein said reaction area comprises at least one reagent adsorbed to said support, said at least one reagent capable of reacting with a compound in said sample.

Claim 34 (previously presented): The test strip of claim 33, wherein said at least one reagent is selected from the group consisting of glucose oxidase, lactate dehydrogenase, peroxidase, and galactose oxidase.

Claim 35 (previously presented): The test strip of claim 4, further comprising a multiplicity of electrically conductive testing contacts capable of transferring current between said reaction area and said measuring device.

Claim 36 (previously presented): The test strip of claim 35, wherein said testing contacts comprise a material selected from the group consisting of carbon, gold, silver, platinum, nickel, palladium, titanium, copper and lead.

Claim 37 (previously presented): The test strip of claim 36, wherein said material is a printable ink.

Claim 38 (previously presented): The test strip of claim 35, wherein said testing contacts are located on a first major surface of said test strip and said indicator is located on a second major surface of said test strip.

Claim 39 (previously presented): The test strip of claim 35, wherein said testing contacts and said indicator are located on the same major surface of said test strip.

Claim 40 (previously presented): A measuring device having a multiplicity of testing functionalities for chemical analysis, adapted for use with the test strip of claim 4, said device comprising:

- (a) a test port comprising at least one pin that can be mechanically engaged by said indicator on said test strip, thereby either closing an electrical circuit or opening an electrical circuit; and
- (b) a multiplicity of test circuitries for specifically measuring reactions on said test strip, said multiplicity of said test circuitries corresponding to said multiplicity of testing functionalities.

Claim 41 (previously presented): The test strip of claim 6, wherein said sample is a bodily fluid.

Claim 42 (previously presented): The test strip of claim 41, wherein said chemical analysis comprises measuring in said sample the concentration of a compound selected from the group consisting of L-amino acids, alcohols, aldehydes, ketones, urea, creatinine, xanthines, sarcosine, glucolactone, pyruvate, lactate, fructosamine, methylamine, carbon monoxide, cholesterol, hemoglobin, glycated hemoglobin, microalbumin, high density lipoproteins, and low density lipoproteins.

Claim 43 (previously presented): The test strip of claim 6, wherein said compound is glucose.

Claim 44 (previously presented): The test strip of claim 6, wherein said reaction area comprises at least one reagent adsorbed to said support, said at least one reagent capable of reacting with a compound in said sample.

Claim 45 (previously presented): The test strip of claim 44, wherein said at least one reagent is selected from the group consisting of glucose oxidase, lactate dehydrogenase, peroxidase, and galactose oxidase.

Claim 46 (previously presented): The test strip of claim 6, further comprising a multiplicity of electrically conductive testing contacts capable of transferring current between said reaction area and said measuring device.

Claim 47 (previously presented): The test strip of claim 46, wherein said testing contacts comprise a material selected from the group consisting of carbon, gold, silver, platinum, nickel, palladium, titanium, copper and lead.

Claim 48 (previously presented): The test strip of claim 47, wherein said material is a printable ink.

Claim 49 (previously presented): The test strip of claim 46, wherein said testing contacts are located on a first major surface of said test strip and said indicator is located on a second major surface of said test strip.

Claim 50 (previously presented): The test strip of claim 46, wherein said testing contacts and said indicator are located on the same major surface of said test strip.

Claim 51 (currently amended): A measuring device having a multiplicity of testing functionalities for chemical analysis, adapted for use with the test strip of claim 6, said device comprising:

- (a) a test port comprising a pattern of at least one indentation or hole, wherein said at least one indentation or hole fails to displace at least one pin of said test strip upon insertion of said test strip into said test port to thereby select only one of said multiplicity of testing functionalities of said measuring device; and
- (b) a multiplicity of test circuitries for specifically measuring reactions on said test strip, said multiplicity of said test circuitries corresponding to said multiplicity of testing functionalities.

Claim 52 (previously presented): The test strip of claim 9, wherein said sample is a bodily fluid.

Claim 53 (previously presented): The test strip of claim 9, wherein said chemical analysis comprises measuring in said sample the concentration of a compound selected from the group consisting of L-amino acids, alcohols, aldehydes, ketones, urea, creatinine, xanthines, sarcosine, glucolactone, pyruvate, lactate, fructosamine, methylamine, carbon monoxide, cholesterol, hemoglobin, glycated hemoglobin, microalbumin, high density lipoproteins, and low density lipoproteins.

Claim 54 (previously presented): The test strip of claim 9, wherein said compound is glucose.

Claim 55 (previously presented): The test strip of claim 9, wherein said reaction area comprises at least one reagent adsorbed to said support, said at least one reagent capable of reacting with a compound in said sample.

Claim 56 (previously presented): The test strip of claim 55, wherein said at least one reagent is selected from the group consisting of glucose oxidase, lactate dehydrogenase, peroxidase, and galactose oxidase.

Claim 57 (previously presented): The test strip of claim 9, further comprising a multiplicity of electrically conductive testing contacts capable of transferring current between said reaction area and said measuring device.

Claim 58 (previously presented): The test strip of claim 57, wherein said testing contacts comprise a material selected from the group consisting of carbon, gold, silver, platinum, nickel, palladium, titanium, copper and lead.

Claim 59 (previously presented): The test strip of claim 58, wherein said material is a printable ink.

Claim 60 (previously presented): The test strip of claim 57, wherein said testing contacts are located on a first major surface of said test strip and said indicator is located on a second major surface of said test strip.

Claim 61 (previously presented): The test strip of claim 57, wherein said testing contacts and said indicator are located on the same major surface of said test strip.

Claim 62 (previously presented): A measuring device having a multiplicity of testing functionalities for chemical analysis, adapted for use with the test strip of claim 9, said device comprising:

- (a) a test port comprising at least one optical sensor capable of measuring light absorbance, reflectivity, color, or a character; and
- (b) a multiplicity of test circuitries for specifically measuring reactions on said test strip, said multiplicity of said test circuitries corresponding to said multiplicity of testing functionalities.